

## METEOR 0.1 General Presentation

Triangle, through the new Meteor 0.1 subwoofer, has given itself the means to offer products truly specialized in the reproduction of bass and infrasonic frequencies. This has been achieved by the exclusive use of high quality components in both driver and amplification design.

In elaborating the Meteor 0.1, Triangle applied its tried and true philosophy in regards of engineering. The drivers and electronics are fully designed and developed by Triangle.

This new subwoofer can be paired with your chosen loudspeakers to create the full sound system of a Home Theater.



Available in Silver / Aluminium only

The Meteor 0.1, while dimensionally small, impresses with great bass reproduction, as well as surprising impact.

This subwoofer comes with a bass driver specifically created and engineered by Triangle : the T21DE120C, and mounted onto an aluminium-injected basket. This unit is configured to generate 100 Watts RMS and 400 Watts at peak power. There is the possibility to connect to both high and low level inputs.

### **A. The Bass Driver**

The **T21DE120c** is a bass driver of 21 cm (8.3") in diameter.

The voice coil is wound on four layers enabling thick copper wire to be used. The driver contains field plates of 8 mm (.31") in height with a magnet of 120 mm (4.72").

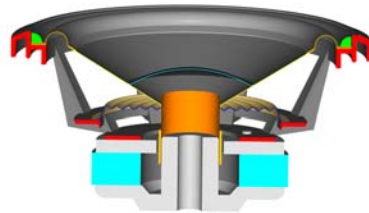
The driver T-Yoke is pierced in the center to facilitate cooling and limit air compression. The diaphragm is made of treated paper.

The basket assembly is made of 2.5 mm (0.1") thick injected aluminium with 8 branches.

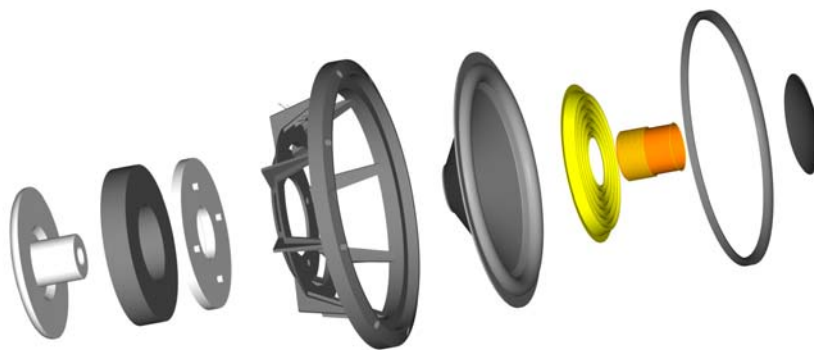
The loudspeaker driver is fixed to the cabinet by eight M4 screws.



**T21DE120c**



**T21DE120c**



**B. Electronics:**

**T21DE120c**

Amplification uses high-power lowloss toroidal transformers capable of delivering 100W RMS for the METEOR 0.1 with the following advantages:

- Highly dynamic,
- Very low sensitivity of the output stage to loudspeaker impedance,
- Good loud speaker control at low frequency signals.

To increase amplification further, surface mount components (SMC) are used, on a double-sided printed circuit to limit distortion as much as possible. Thus, the signal / noise ratio and integration are excellent and the circuit is very robust. Also to further increase amplification, the dissipater temperature is controlled by a sensor to prevent rapid rises in temperature at the output stage.

Filtering is studied so as to optimize the frequency response of the enclosures. The cut-off frequency varies on all enclosures from 40 to 160 Hz.

The METEOR 0.1 is equipped with automatic powering on when an audio signal is received of an amplitude greater than  $-65\text{dB}$ . In addition, the enclosure switches off automatically after 10 minutes without receiving a signal greater than  $-70\text{dB}$  or without user operation (phase).

### **C. The cabinet:**

It is comprised of sides of 19mm thickness for good rigidity. The cabinet itself is reinforced by a bracket. In addition, a plate with chamfered edges covers the cabinet and serves to absorb waves by creating a thickness of 38mm. Amplification is insulated from the rest by two sides of 19mm thick in order to eliminate any risk of leaking at the electronics.

**Meteor 0.1 Technical Characteristics**

**Power Amplifier**

<b>Nominal power</b>	:	<b>100 W RMS</b>
<b>Dynamic power</b>	:	<b>400 W</b>
<b>THD</b>	:	<b>&lt;-70dB ( 1W 40Hz )</b>

**Specifications**

<b>Frequency response (+/- 3dB)</b>	:	<b>35Hz - 160Hz</b>
<b>Filter cut-off frequency</b>	:	<b>40Hz - 160Hz</b>
<b>Automatic switch On sensitivity</b>	:	<b>&lt;-65dB</b>
<b>Automatic switch Off sensitivity</b>	:	<b>&lt;-70dB</b>
<b>Automatic switch Off delay without signal</b>	:	<b>10 mn</b>
<b>Phase</b>	:	<b>0-180°</b>
<b>Input impedance</b>	:	<b>10k ohms</b>
<b>Bass driver</b>	:	<b>T21DE120c</b>
<b>Speaker diameter</b>	:	<b>210 mm / 8.3"</b>
<b>Magnetic shielding</b>	:	<b>NO</b>

**General**

<b>Power supply</b>	:	<b>220 / 240v - 50Hz switchable 115v – 60Hz</b>
<b>Inputs</b>	:	<b>L&amp;R high &amp; low level</b>
<b>Output</b>	:	<b>High level</b>
<b>Net weight</b>	:	<b>14,5kg / 32lbs</b>
<b>Dimensions HxWxD (mm)</b>	:	<b>370 x 320 x 340</b>
<b>Dimensions HxWxD (inches)</b>	:	<b>14.5" x 12.6" x 13.3"</b>